



SEQUENCE LISTING

<110> Muir, Tom
Cotton, Graham
The Rockefeller University

<120> Multiple Sensor-Containing Polypeptides,
Methods of Preparation and Uses Thereof

<130> RU 453

<140> 10/784,721
<141> 2004-02-23

<150> 09/483,543
<151> 2000-01-14

<160> 10

<170> FastSEQ for windows Version 3.0

<210> 1
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Cleavage Site for PreScission Protease

<400> 1
Leu Glu Val Leu Phe Gln Gly Pro
1 5

<210> 2
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<223> Peptide Substrate

<400> 2
Glu Ala Ile Tyr Ala Ala Pro Phe Ala Lys Lys Lys
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<220>
<223> Primer

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aaaagaaaaa aaggcggccg ctcgatctg atcgaaggtc gttgtgcggg caacttcgac
tcgg 60
64

<210> 4
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<212> DNA

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 gcaaactggc tcttccgcag ccgctgaagt cctcatcggg 40

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 <223> Xa-Cys-(Crk-II)-Intein-CBD Construct
 <400> 5
 Met Ala Ser Ser Arg Val Asp Gly Gly Arg Ser Asp Leu Ile Glu Gly
 1 5 10 15
 Arg Cys

<210> 6
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<220>
 <223> Cys-F1-PS-Biotin Construct
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 <221> misc_feature
 <222> 3
 <223> Xaa = Lys-[Dapa(F1)]
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 <223> Xaa = [Lys-(Biotin)]
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 Cys Gly Xaa Gly Leu Glu Val Leu Phe Gln Gly Pro Val Arg Lys Gly
 1 5 10 15
 Xaa Gly

<210> 7
 <211> 11
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<220>
 <223> High affinity ligand for the N-SH3 Domain of Crk
 <400> 7
 Pro Pro Pro Ala Leu Pro Pro Lys Arg Arg Arg
 1 5 10

<210> 8
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 <223> Protein Kinase Target
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 Lys Arg Gly Cys Ala Gly Asn Phe Asp Ser Glu Glu Arg Ser Ser Trp
 1 5 10 15
 Tyr Trp Gly Arg Leu Ser Arg Gln Glu Val Ala Leu Leu Gln Gly
 20 25 30
 Gln Arg His Gly Val Phe Leu Val Arg Asp Ser Ser Thr Ser Pro Gly
 35 40 45
 Asp Tyr Val Leu Ser Val Ser Glu Asn Ser Arg Val Ser His Tyr Ile
 50 55 60
 Ile Asn Ser Ser Gly Pro Arg Pro Pro Val Pro Pro Ser Pro Ala Gln
 65 70 75 80
 Pro Pro Pro Gly Val Ser Pro Ser Arg Leu Arg Ile Gly Asp Gln Glu
 85 90 95
 Phe Asp Ser Leu Pro Ala Leu Leu Glu Phe Tyr Lys Ile His Tyr Leu
 100 105 110
 Asp Thr Thr Thr Leu Ile Glu Pro Val Ala Arg Ser Arg Gln Gly Ser
 115 120 125
 Gly Val Ile Leu Arg Gln Glu Glu Ala Glu Tyr Val Arg Ala Leu Phe
 130 135 140
 Asp Phe Asn Gly Asn Asp Glu Glu Asp Leu Pro Phe Lys Lys Gly Asp
 145 150 155 160
 Ile Leu Arg Ile Arg Asp Lys Pro Glu Glu Gln Trp Trp Asn Ala Glu
 165 170 175
 Asp Ser Glu Gly Lys Arg Gly Met Ile Pro Val Pro Tyr Val Glu Lys
 180 185 190
 Tyr Arg Pro Ala Ser Ala Ser Val Ser Ala Leu Ile Gly Asn Gln
 195 200 205
 Glu Gly Ser His Pro Gln Pro Leu Gly Gly Pro Glu Pro Gly Pro Tyr
 210 215 220
 Ala Gln Pro Ser Val Asn Thr Pro Leu Pro Asn Leu Gln Asn Gly Pro
 225 230 235 240
 Ile Tyr Ala Arg Val Ile Gln Lys Arg Val Pro Asn Ala Tyr Asp Lys
 245 250 255
 Thr Ala Leu Ala Leu Glu Val Gly Glu Leu Val Lys Val Thr Lys Ile
 260 265 270
 Asn Val Ser Gly Gln Trp Glu Gly Cys Asn Gly Lys Arg Gly His
 275 280 285
 Phe Pro Phe Thr His Val Arg Leu Leu Asp Gln Gln Asn Pro Asp Glu
 290 295 300
 Asp Phe Ser Gly Cys Gly Xaa Gly Leu Glu Val Leu Phe Gln
 305 310 315

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 <223> Recombinant Intermediate

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 <223> Xaa = Lys-[Dapa(F1)]

<220>
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 <223> Xaa = [Lys-(Biotin)]

<400> 9
 Lys Arg Gly Cys Ala Gly Asn Phe Asp Ser Glu Glu Arg Ser Ser Trp
 1 5 10 15
 Tyr Trp Gly Arg Leu Ser Arg Gln Glu Ala Val Ala Leu Leu Gln Gly
 20 25 30

Gln Arg His Gly Val Phe Leu Val Arg Asp Ser Ser Thr Ser Pro Gly
 35 40 45
 Asp Tyr Val Leu Ser Val Ser Glu Asn Ser Arg Val Ser His Tyr Ile
 50 55 60
 Ile Asn Ser Ser Gly Pro Arg Pro Pro Val Pro Pro Ser Pro Ala Gln
 65 70 75 80
 Pro Pro Pro Gly Val Ser Pro Ser Arg Leu Arg Ile Gly Asp Gln Glu
 85 90 95
 Phe Asp Ser Leu Pro Ala Leu Leu Glu Phe Tyr Lys Ile His Tyr Leu
 100 105 110
 Asp Thr Thr Thr Leu Ile Glu Pro Val Ala Arg Ser Arg Gln Gly Ser
 115 120 125
 Gly Val Ile Leu Arg Gln Glu Glu Ala Glu Tyr Val Arg Ala Leu Phe
 130 135 140
 Asp Phe Asn Gly Asn Asp Glu Glu Asp Leu Pro Phe Lys Lys Gly Asp
 145 150 155 160
 Ile Leu Arg Ile Arg Asp Lys Pro Glu Glu Gln Trp Trp Asn Ala Glu
 165 170 175
 Asp Ser Glu Gly Lys Arg Gly Met Ile Pro Val Pro Tyr Val Glu Lys
 180 185 190
 Tyr Arg Pro Ala Ser Ala Ser Val Ser Ala Leu Ile Gly Gly Asn Gln
 195 200 205
 Glu Gly Ser His Pro Gln Pro Leu Gly Gly Pro Glu Pro Gly Pro Tyr
 210 215 220
 Ala Gln Pro Ser Val Asn Thr Pro Leu Pro Asn Leu Gln Asn Gly Pro
 225 230 235 240
 Ile Tyr Ala Arg Val Ile Gln Lys Arg Val Pro Asn Ala Tyr Asp Lys
 245 250 255
 Thr Ala Leu Ala Leu Glu Val Gly Glu Leu Val Lys Val Thr Lys Ile
 260 265 270
 Asn Val Ser Gly Gln Trp Glu Gly Cys Asn Gly Lys Arg Gly His
 275 280 285
 Phe Pro Phe Thr His Val Arg Leu Leu Asp Gln Gln Asn Pro Asp Glu
 290 295 300
 Asp Phe Ser Gly Cys Gly Xaa Gly Leu Glu Val Leu Phe Gln Gly Pro
 305 310 315 320
 Val Arg Lys Gly Xaa Gly 325

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 <212> PRT
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<220>
 <223> site for Sequential Ligation

<220>
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 <223> Xaa = Cys (Xa-Cys)

<400> 10
 Ile Glu Gly Arg Xaa
 1 5